Name: Date:

FOIL when $A \neq 1$ SLTN (version 128)

FOIL the expressions shown below:

1. $(-8x - 6)(-9x - 8)$

$$(-8)(-9)x^2 + (-8)(-8)x + (-6)(-9)x + (-6)(-8)$$
$$(72)x^2 + (64)x + (54)x + (48)$$
$$72x^2 + 118x + 48$$

2. $(7x + 4)(-2x - 7)$

$$(7)(-2)x^2 + (7)(-7)x + (4)(-2)x + (4)(-7)$$
$$(-14)x^2 + (-49)x + (-8)x + (-28)$$
$$-14x^2 - 57x - 28$$

3. $(3x + 8)(-6x + 3)$

$$(3)(-6)x^2 + (3)(3)x + (8)(-6)x + (8)(3)$$
$$(-18)x^2 + (9)x + (-48)x + (24)$$
$$-18x^2 - 39x + 24$$

4. $(-4x - 2)(-3x - 6)$

$$(-4)(-3)x^2 + (-4)(-6)x + (-2)(-3)x + (-2)(-6)$$
$$(12)x^2 + (24)x + (6)x + (12)$$
$$12x^2 + 30x + 12$$

5. $(-8x - 7)(7x + 9)$

$$(-8)(7)x^2 + (-8)(9)x + (-7)(7)x + (-7)(9)$$
$$(-56)x^2 + (-72)x + (-49)x + (-63)$$
$$-56x^2 - 121x - 63$$

FOIL the expressions shown below:

6. $(8x-7)(-3x+5)$

$$(8)(-3)x^2+(8)(5)x+(-7)(-3)x+(-7)(5)$$
$$(-24)x^2+(40)x+(21)x+(-35)$$
$$-24x^2+61x-35$$

7. $(9x-8)(-9x+7)$

$$(9)(-9)x^2+(9)(7)x+(-8)(-9)x+(-8)(7)$$
$$(-81)x^2+(63)x+(72)x+(-56)$$
$$-81x^2+135x-56$$

8. $(3x-3)(9x+8)$

$$(3)(9)x^2+(3)(8)x+(-3)(9)x+(-3)(8)$$
$$(27)x^2+(24)x+(-27)x+(-24)$$
$$27x^2-3x-24$$

9. $(-2x+5)(3x-7)$

$$(-2)(3)x^2+(-2)(-7)x+(5)(3)x+(5)(-7)$$
$$(-6)x^2+(14)x+(15)x+(-35)$$
$$-6x^2+29x-35$$

10. $(-9x-9)(9x+4)$

$$(-9)(9)x^2+(-9)(4)x+(-9)(9)x+(-9)(4)$$
$$(-81)x^2+(-36)x+(-81)x+(-36)$$
$$-81x^2-117x-36$$